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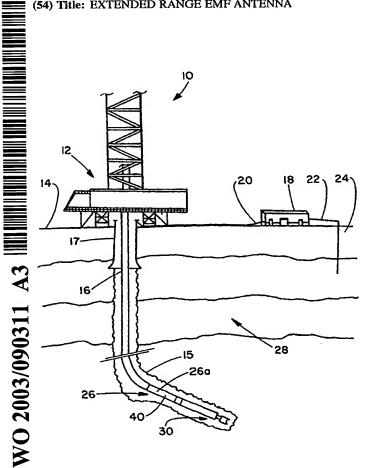
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[Continued on next page]

(54) Title: EXTENDED RANGE EMF ANTENNA



(57) Abstract: A measuring while drilling system (28) typically has a metal pipework (16) extending underground connected to an antenna (26a). The metal pipework (16) and the antenna (26a) are both connected to a type of downhole equipment. The antenna (26a) transmits or receives signals to/from a transceiver (18) located on the surface, and the transceiver (18) is connected to the metal pipeword (16) and to a ground (24). The system is improved by joining a plurality of sections of wired drill pipe (40) together to form a section where the antenna (26a) is integral with the metal pipework (16). One end of the section of wired drill pipe (40) is joined to downhole equipment and another end is joined to a conventional metal pipework (16).

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SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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| establish specified | nt which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as the publication date of another citation or other special reason (as the publication date of another citation or other means | "Y" document of particular relevance; considered to involve an inventive combined with one or more other being obvious to a person skilled it | step when the document is such documents, such combination | | |
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